REMARKS

Favorable reconsideration of this application in view of the previous amendments and following remarks is respectfully requested.

Claim 1-6 and 9-14 are pending. By this Amendment, claims 1-4 and 12-14 are amended. No new matter is added by any of the amendments. Support for the amendments can be found in the specification at least at page 4, lines 2-14.

Applicants appreciate the courtesies extended to Applicants' representative during the June 28, 2007 personal interview. The substance of the discussions held are incorporated into the amendments and remarks herein and constitute Applicants' record of the interview. The Request for Continued Examination is filed as a result of the Examiner's observation that the amendments discussed during the personal interview would likely raise new issues requiring further consideration and/or search.

The May 3, 2007 Office Action rejects claims 1-6 and 9-14 under 35 U.S.C. §112, second paragraph. In response, claim 1 is amended to delete "being excessive." Claim 12 is amended to recite "at least one of a process for producing an alarm and a process for decelerating the vehicle is executed depending upon the amount of time....." Claim 14 is amended to recite "at least one of a plurality of specific processes" are started depending upon an amount of time during which the obtained road bank angle itself continues to be greater than the predetermined value. Withdrawal of the rejection under 35 U.S.C. §112, second paragraph, is respectfully requested.

The Office Action rejects claims 1-6 and 9-14 under 35 U.S.C. §102(e) over U.S. Patent No. 7,003,389 to Lu et al. This rejection is respectfully traversed.

The subject matter of this application pertains to a control device for a vehicle that takes into account the cant amount of the road surface on which the vehicle is running. As set forth in independent Claim 1, the vehicle control device comprises road surface obtaining means for obtaining the <u>road bank angle</u> of the road surface on which the vehicle is running in the vehicle body roll direction. The vehicle control device also comprises specific process executing means for comparing the obtained <u>road bank angle</u> with a predetermined value and for starting a specific process for restraining a roll angle of a vehicle from increasing when the obtained road bank angle is greater than the predetermined value.

Solely for purposes of facilitating the Examiner's understanding, reference is made to the embodiment of the vehicle control device described in the present application. As discussed in the specification, the vehicle control device obtains a road bank angle of the road surface in the vehicle body roll direction. The device then compares this obtained road bank angle with a predetermined value (CANTref). When the obtained road bank angle becomes greater than the predetermined value (CANTref), the control device starts a specific process for restraining a roll angle of the vehicle from increasing. The discussion beginning on page 29 of the application describes, by way of example, specific processes that can be started to restrain a roll angle of the vehicle from increasing when the obtained road bank angle becomes greater than the predetermined value (CANTref).

Lu et al. discloses a system for determining a body-to-road roll angle. Lu et al. states that this system can be used in conjunction with a yaw control system, a rollover control system or a deployment device such as an airbag or a roll bar. Lu et al. describes that the disclosed system initially determines a first body-to-road roll

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angle $\theta_{b \text{ to } r-1}$ as illustrated in step 90 of Fig. 6. This first body-to-road roll angle is determined as discussed in column 10 of Lu et al. based on the wheel departure θ_{xr}). Thereafter, as shown in step 92 of Fig. 6 and discussed near the bottom of column 10 of Lu et al., the system determines a second body-to-road roll angle $\theta_{b to r-2}$. This determination of the second body-to-road roll angle is based on a global roll angle θ_x and a road bank angle bank θ_{bank} which are once again shown in Fig. 2. Using these calculated values of the first and second body-to-road roll angles $\theta_{b \text{ to } r-1}$, $\theta_{b \text{ to } r-2}$, the system in Lu et al. determines a final body-to-road roll angle as noted in step 94 of Fig. 6 and as discussed near the bottom of column 12 of Lu et al. That is, the final body-to-road roll angle $\theta_{b_t t_0}$ is calculated as $\theta_{b_t t_0} = \beta^* \theta_{b_t t_0} + (1-\beta^* \theta_{b_t t_0})$ β)* $\theta_{b to r-2}$. At the bottom of column 12, *Lu et al.* describes that, based on the final body-to-road roll angle, at least one of the safety systems 38 shown in Fig. 4A (the airbag 40, the active braking system 41, the active front steering system 42, the active rear steering system 43, the active suspension system 44 and the active antiroll bar system) is controlled.

One difference between the claimed vehicle control device and the system described in Lu et al. is that the claimed vehicle control device comprises specific process executing means which compares the obtained <u>road bank angle</u> itself with a predetermined value and starts a specific process for restraining a roll angle of the vehicle from increasing when the obtained cant amount itself becomes greater than the predetermined value. Lu et al. does not describe that the disclosed system compares the road bank angle θ_{bank} itself with a predetermined value and does not disclose that when the road bank angle θ_{bank} itself is greater than a predetermined

value, the system starts a specific process for restraining a roll angle of the vehicle from increasing. Rather, Lu et al. describes using the road bank angle θ_{bank} to calculate the second body-to-road roll angle $\theta_{b_to_r-2}$, using the second body-to-road roll angle $\theta_{b_to_r-2}$ to determine the final body-to-road roll angle $\theta_{b_to_r}$, and then controlling at least one of the safety systems based on the final body-to-road roll angle. Thus, Lu et al. cannot anticipate the claimed vehicle control device recited in independent Claim 1.

The comment at the top of page two of the Official Action concerning the means plus function recitation set forth in Claim 1 is not readily understood. Here, the Official Action comments that the language in Claim 1 reciting the road surface obtaining means does not properly invoke the sixth paragraph of 35 U.S.C. § 112 because the claim goes on to recite structure sufficient to perform the claimed function. It is not at all clear what structure the Official Action is referring to in this regard as the wording in Claim 1 uses the typical means plus function wording. Section 2181 of the Manual of Patent Examining Procedure states that a means plus function recitation will be interpreted as such unless the claim element is modified by sufficient structure, material or acts for achieving the specific function. Here, the Official Action has not identified the claimed structure which modifies the means plus function language and performs the claimed function. It is respectfully submitted that this observation at the top of page two of the Official Action is misplaced. To the extent the Examiner maintains this position, the Examiner is respectfully requested to specifically address this point by identifying the claimed structure which modifies the means plus function language and performs the claimed function.

Page 7 of the Official Action also refers to other language in the claims of this application and comments that such wording is a statement of intended use or a recitation of a method of using. Once again, it is respectfully submitted that this position is without basis. The noted recitations are neither statements of intended use nor recitations of method of use. Rather, the wording in question sets forth the function(s) associated with the means plus function recitations. As such, these recitations are entirely proper and must be considered in the context of assessing the patentability of the claimed subject matter.

The dependent claims in this application are allowable at least by virtue of their dependence from allowable independent Claim 1. Thus, at this time, all of the additional distinguishing aspects associated with the claimed vehicle control device as recited in the dependent claims are not discussed in detail.

Early and favorable action with respect to this application is respectfully requested.

Should any questions arise in connection with this application or should the Examiner believe that a telephone conference with the undersigned would be helpful in resolving any remaining issues pertaining to this application the undersigned respectfully requests that he be contacted at the number indicated below.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

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